



ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Ta-Chiang	2. Surname (Last Name) Liu	3. Date 18-April-2016
4. Are you the corresponding author? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Corresponding Author's Name Thaddeus S. Stappenbeck, Nita H. Salzman
5. Manuscript Title Paneth cell defects in Crohn's disease patients promote dysbiosis		
6. Manuscript Identifying Number (if you know it) 86907-INS-CMED-1		

Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest? Yes No

If yes, please fill out the appropriate information below. If you have more than one entity press the "ADD" button to add a row. Excess rows can be removed by pressing the "X" button.

Name of Institution/Company	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Doris Duke Charitable Foundation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Section 3. Relevant financial activities outside the submitted work.

Place a check in the appropriate boxes in the table to indicate whether you have financial relationships (regardless of amount of compensation) with entities as described in the instructions. Use one line for each entity; add as many lines as you need by clicking the "Add +" box. You should report relationships that were **present during the 36 months prior to publication**.

Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No



ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 5. Relationships not covered above

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Section 6. Disclosure Statement

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Dr. Liu reports grant support from Doris Duke Charitable Foundation.

Evaluation and Feedback

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Bhaskar

2. Surname (Last Name)
Gurram

3. Date
07-April-2016

4. Are you the corresponding author?

Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)

86907-INS-CMED-1

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Dr. Gurram has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Megan

2. Surname (Last Name)
Baldrige

3. Date
06-April-2016

4. Are you the corresponding author?

Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

Paneth cell defects in Crohn's disease patients promote dysbiosis

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Dr. Baldrige has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Richard	2. Surname (Last Name) Head	3. Date 11-April-2016
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name Thaddeus S. Stappenbeck, Nita H. Salzman
5. Manuscript Title Paneth cell defects in Crohn's disease patients promote dysbiosis		
6. Manuscript Identifying Number (if you know it) 86907-INS-CMED-1		

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Dr. Head has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) VY	2. Surname (Last Name) LAM	3. Date 16-April-2016
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name Thaddeus Stappenbeck and Nita Salzman
5. Manuscript Title Paneth Cell Defects in Crohn's Disease Patients Promote Dysbiosis		
6. Manuscript Identifying Number (if you know it) 86907-INS-CMED-1		

Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No



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Dr. LAM has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Chengwei	2. Surname (Last Name) Luo	3. Date 11-April-2016
4. Are you the corresponding author?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corresponding Author's Name Thaddeus S. Stappenbeck, Nita H. Salzman
5. Manuscript Title Paneth cell defects in Crohn's disease patients promote dysbiosis		
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Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

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Dr. Luo has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Yumei

2. Surname (Last Name)
Cao

3. Date
07-April-2016

4. Are you the corresponding author?

Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

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Dr. Cao has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
pippa

2. Surname (Last Name)
simpson

3. Date
07-April-2016

4. Are you the corresponding author?

Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

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Dr. simpson has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Michael

2. Surname (Last Name)
Hayward

3. Date
18-April-2016

4. Are you the corresponding author? Yes No

Corresponding Author's Name
Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title
Paneth cell defects in Crohn's disease patients promote dysbiosis

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Dr. Hayward has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Mary

2. Surname (Last Name)
Holtz

3. Date
11-April-2016

4. Are you the corresponding author? Yes No

Corresponding Author's Name
Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title
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Dr. Holtz has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)

PAVLOS

2. Surname (Last Name)

BOUSOUNIS

3. Date

12-April-2016

4. Are you the corresponding author?

 Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

Paneth cell defects in Crohn's disease patients promote dysbiosis

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Mr. BOUSOUNIS has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)

Joshua

2. Surname (Last Name)

Noe

3. Date

12-April-2016

4. Are you the corresponding author?

Yes

No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

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Dr. Noe has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)

Diana

2. Surname (Last Name)

Lerner

3. Date

06-April-2016

4. Are you the corresponding author?

 Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

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Dr. Lerner has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Jose

2. Surname (Last Name)
Cabrera

3. Date
11-April-2016

4. Are you the corresponding author? Yes No

Corresponding Author's Name
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Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No



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Dr. Cabrera has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)

Vincent

2. Surname (Last Name)

Biank

3. Date

07-April-2016

4. Are you the corresponding author?

Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)

86907-INS-CMED-1

Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

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Dr. Biank has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)

Michael

2. Surname (Last Name)

Stephens

3. Date

11-April-2016

4. Are you the corresponding author?

Yes No

Corresponding Author's Name

Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title

Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)

86907-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No



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Section 1. Identifying Information

1. Given Name (First Name)
Curtis

2. Surname (Last Name)
Huttenhower

3. Date
18-April-2018

4. Are you the corresponding author? Yes No

Corresponding Author's Name
Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title
Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)
86907-INS-CMED-1

Section 2. The Work Under Consideration for Publication

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Are there any relevant conflicts of interest? Yes No

Section 3. Relevant financial activities outside the submitted work.

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No



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I am a scientific advisor for Seres Therapeutics, Evelo Therapeutics, and Microbiome Insights; to the best of my knowledge none of them involve work relevant to this publication.

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Dr. Huttenhower reports and I am a scientific advisor for Seres Therapeutics, Evelo Therapeutics, and Microbiome Insights; to the best of my knowledge none of them involve work relevant to this publication..

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Section 1. Identifying Information

1. Given Name (First Name)
Dermot

2. Surname (Last Name)
McGovern

3. Date
11-April-2016

4. Are you the corresponding author? Yes No

Corresponding Author's Name
Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title
Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)
86907-INS-CMED-1

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Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest? Yes No

If yes, please fill out the appropriate information below. If you have more than one entity press the "ADD" button to add a row. Excess rows can be removed by pressing the "X" button.

Name of Institution/Company	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
NIH, European Union, Helmsley Charitable Trust	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Section 3. Relevant financial activities outside the submitted work.

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Are there any relevant conflicts of interest? Yes No

If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Merck	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Janssen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
UCB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



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Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No

Section 5. Relationships not covered above

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Section 6. Disclosure Statement

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Dr. McGovern reports grants from NIH, European Union, Helmsley Charitable Trust, during the conduct of the study; personal fees from Merck, personal fees from Janssen, personal fees from UCB, outside the submitted work; .

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Section 1. Identifying Information

1. Given Name (First Name)
Ramnik

2. Surname (Last Name)
Xavier

3. Date
11-April-2016

4. Are you the corresponding author? Yes No

Corresponding Author's Name
Thaddeus S. Stappenbeck, Nita H. Salzman

5. Manuscript Title
Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)
86907-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

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Dr. Xavier has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)
Thaddeus

2. Surname (Last Name)
Stappenbeck

3. Date
11-April-2016

4. Are you the corresponding author? Yes No

5. Manuscript Title
Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)
86907-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No



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Dr. Stappenbeck has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)
Nita

2. Surname (Last Name)
Salzman

3. Date
08-April-2016

4. Are you the corresponding author? Yes No

5. Manuscript Title
Paneth cell defects in Crohn's disease patients promote dysbiosis

6. Manuscript Identifying Number (if you know it)
86907-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

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Name of Institution/Company	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Crohn's and Colitis Foundation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Dr. Salzman reports grants from Crohn's and Colitis Foundation, during the conduct of the study; .

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Paneth Cell Defects in Crohn's Disease Patients Promote Dysbiosis (86907-INS-CMED-1)

The following checklist was used for preparation of the study described in the manuscript.

All required items have been met.

STROBE Statement—Checklist of items that should be included in reports of *cross-sectional studies*

	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract (b) Provide in the abstract an informative and balanced summary of what was done and what was found
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported
Objectives	3	State specific objectives, including any prespecified hypotheses
Methods		
Study design	4	Present key elements of study design early in the paper
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group
Bias	9	Describe any efforts to address potential sources of bias
Study size	10	Explain how the study size was arrived at
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding (b) Describe any methods used to examine subgroups and interactions (c) Explain how missing data were addressed (d) If applicable, describe analytical methods taking account of sampling strategy (e) Describe any sensitivity analyses
Results		
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed (b) Give reasons for non-participation at each stage (c) Consider use of a flow diagram
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders (b) Indicate number of participants with missing data for each variable of interest
Outcome data	15*	Report numbers of outcome events or summary measures
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized

(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period

Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses
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Discussion

Key results	18	Summarise key results with reference to study objectives
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence
Generalisability	21	Discuss the generalisability (external validity) of the study results

Other information

Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based
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*Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at www.strobe-statement.org.